

Abstract

A method for loading a fibrous suspension containing cellulose fibers with calcium carbonate, including introducing one of aqueous calcium hydroxide, dry calcium hydroxide and calcium oxide into the fibrous suspension and introducing gaseous carbon dioxide into the fibrous suspension. Additionally, the method includes performing a precipitation process, wherein the calcium carbonate is precipitated in spherical agglomerations of crystals by the carbon dioxide. Moreover, an apparatus for loading the fibrous suspension containing cellulose fibers is also created.